

POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 232

AUGUST 4, 1961

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SPECIAL NOTE

This report is intended for the information and administrative use of those involved in the investigation and control of poliomyelitis and polio-like diseases. It presents a summary of provisional information reported to CDC from State Health Departments, Virology Laboratories, Epidemic Intelligence Service Officers, and other pertinent sources. Since much of the information is preliminary in nature, confirmation and final interpretation should be determined in consultation with the original investigators prior to any further use of the material.

SUMMARY

A total of 38 cases, 26 paralytic, a sharp increase over last week's figures, was reported during the 30th week ending July 29.

New cases continue to be reported from Frederick County, Maryland. Narrative reports from Maryland, Washington, Georgia, Florida, Louisiana, and Pennsylvania are included.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

An extremely sharp increase in total and paralytic case reporting was evident during the 30th week ending July 29, 1961. A total of 38 cases, 26 paralytic, was compiled from State telegraphic reports, representing an upswing in weekly reports as depicted in Figure 1. The current weekly figures remain well below those of corresponding weeks in recent years, however, and cumulative reporting in 1961 continues at a level less than 40 percent of 1960 reporting as shown below:

Polio (Cumulated Weekly) through the 30th Week for Past Five Years

	1961	<u>1960</u>	1959	1958	1957
Paralytic	207	609	1,342	550	835
Total	327	837	2,040	1,092	2,270

Only 20 of 50 reporting States contributed to this week's total; most reports represented scattered Statewide incidence. Cases continue to be reported from Frederick County, Maryland and an additional suspect case has been diagnosed as poliomyelitis in the Bradenton-Manatee County, Florida, area. No new concentrations were evident.

2. REPORTS

A. Maryland

Three additional paralytic cases of poliomyelitis have occurred in Frederick County, bringing the 1961 total in that county to six cases. Dr. John H. Janney, Epidemiologist, Maryland State Department of Health, reports the following information concerning the six cases, all of which have had onset since June 30.

Date of Onset	<u>Initials</u>	Age	Race	<u>Sex</u>	Vacc.	Laboratory	Location
6-30	R. W.	1	W	M	ov	Type 3	Frederick
6-30	C. P.	5	W	M	OV	ou Bonibure s	Semi-rural
7-1	K. R.	6	W	M	OV	Type 3	Rural
7-10	L. H.	9	N	F	3V		Semi-rural
7-14	R. C.	1	W	M	ov		Frederick
7-15	K. J.	10	W	F	ov		Frederick

All but one case was unvaccinated and there have been two Type 3 poliovirus isolations. The 3 rural or semi-rural cases are all within seven miles of Frederick. The 1960 Census lists the population of Frederick County as 71,930 and Frederick City as 21,744.

B. Washington

All 3 paralytic cases reported this week are from Seattle. According to Dr. W. R. Giedt, Epidemiologist, Washington State Department of Health, the cases are paralytic, and onsets are spread over a two-month period as summarized below:

Age	Race	Sex	Onset Date	Type of Paralysis	Vaccination Status	Laboratory Results
27	W	М	5-26	Unspecified	ov	
24	W	M	6-17	Bulbar	2V	Type 3 poliovirus
		1 7		or terms server		isolate
4	W	M	7-18	Bulbar	47	Sant D. Lod, Dre

Two adults and one child are involved. There is no evidence of localization within the city. Type 3 poliovirus has been isolated from specimens of the June case, and laboratory investigation of the most recent case is underway. Two previous unvaccinated adult cases occurred in Seattle during April, one yielding a Type 3 poliovirus. It will be recalled that the extensive epidemic of poliomyelitis in Seattle during 1959 was clearly due to Type 1 poliovirus, with unvaccinated adults largely involved (Ravenholt, "Poliomyelitis in an immunized community," Public Health Reports 76:166-78, 1961).

C. Georgia

An additional delayed paralytic case report from the greater Atlanta area was included in the current State telegraphic report. According to Dr. W. J. Murphy, Epidemiologist, Georgia State Department of Health, the patient is an 8 month old white male infant with onset June 25. He had received his first dose of inactivated-virus vaccine on June 16, and type 3 oral vaccine on June 22. Viral studies are underway, but results are not yet available.

This brings the reported greater metropolitan Atlanta total to 8 cases, 7 paralytic. Type 3 poliovirus has been implicated in the nonparalytic case and in 4 of the 7 paralytic cases. An additional 9 cases of aseptic meningitis syndrome have also been reported, 4 of which have yielded Coxsackie B-4 isolates. Two of these 9 cases reside in Cobb and DeKalb Counties.

VO VO 01.3

MoireborD. Florida

2V Type 3 policycarus

Semi-rural

Frederick

Included in the 4 case reports from Florida this week are 3 scattered nonparalytic cases and one additional paralytic case from the Bradenton-Manatee County Area (See PSU Report No. 229). This brings the total in Manatee County to 5 cases, all paralytic, as summarized below. An additional 3 cases of neurological illness of suspected viral etiology are under investigation. No cases have been reported with July or August onsets.

À.	Searth.	moril s	Onset	ing Laccination	Laboratory
					Results
7040	beend s	ONE S	and onser	cases are rerelytic,	ment of New th, the
2	N	F	4-13	andled borOV manuals	Type 3 titer rise
4	N	M	4-14	OV	and the second second second second
20 103	STOWER	Fioi	3 a. 7 . 5- 25	Cased VOlyge of	
2	JLN 9	F	6-15	Dake VOParalysis	Type 3 titer rise
12		M	6-23	2V	Type I poliovirus
			70	5-26 - Unapped Mr i	isolate

M 6-12 Bulber

A field investigation progress report has been received from Dr. James O. Bond, Director, Bureau of Preventable Diseases, Florida State Board of Health. There has been some evidence of localization in the county; the 3 Negro children all live in the small city of Palmetto within a four block radius of one another. No similar illnesses in household associates have been noted, nor have there been any current outbreaks in the community of other childhood diseases, summer diarrhea, or obscure febrile illnesses. A stool survey on June 30 of 27 healthy preschool nursery school children selected at random yielded type 2 poliovirus isolates from 6 children of 5 families. In addition, both types 1 and 2 poliovirus were obtained from sewage samples taken in the area.

A poliomyelitis immunization survey conducted by the State and County Health Departments disclosed that, in the white community, 64.3 per cent of preschool age and 77.3 per cent of school age children were triply vaccinated. The non-white community, however, was much less well vaccinated. Only 5.0 per cent of preschool age and 32.2 per cent of school age children were triply vaccinated. Intensive immunization programs are now being carried out in indicated areas.

E. Louisiana

Although there have been 8 cases of poliomyelitis reported during the past six weeks, the weekly Louisiana Poliomyelitis Report reveals no focal concentration in that state. The total number of cases in 1961 remains well below that of previous years.

Louisiana Polio through 30th Week

	1961	1960	1959
Paralytic Total	12	23	46
Total	15	33	63

Of the 15 cases reported thus far in 1961, 4 were delayed reports having onset in 1960. The remaining 11 cases (10 paralytic) have occurred in eight scattered parishes with only Evangeline Parish (2 cases) and Orleans Parish (3 cases) having more than one case. All three cases in Orleans Parish (New Orleans) were paralytic and involved unvaccinated children. The first occurred in late April and yielded a Type 1 poliovirus and the other two had onset during June with one Type 3 poliovirus being isolated.

Five of the 10 paralytic cases were unvaccinated while 4 have had three or more doses of vaccine. None of the 10 were pre-school children.

F. Pennsylvania

The 3 paralytic poliomyelitis cases reported this week are all from different counties. According to Dr. I. F. Gratch, Epidemiologist, Pennsylvania Department of Health, the total State incidence to date stands at 7 cases, all paralytic. The 3 currently reported cases include one fatality, a 33 year-old unvaccinated white male from Lebanon County. This patient was the father of five, and epidemiologic investigation revealed that each family member (wife, daughter, four sons) was triply vaccinated. Poliovirus Type 1 has been isolated from a household contact.

3. 1961 POLIOMYELITIS CASES REPORTED TO PSU TO PSU

Through July 31, there have been 205 cases of poliomyelitis with onset in 1961 submitted to the Poliomyelitis Surveillance Unit on individual case forms. Of these 205 cases, 158 (77 percent) are paralytic.

These cases will be presented by paralytic status, age group, and vaccination history in the next PSU report.

4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases with Onset within 30 Days of Vaccination

During the first seven months of 1961, the Poliomyelitis Surveillance Unit has received notification of eight cases, including two this week, of poliomyelitis which occurred within thirty days of vaccination. Of these eight cases, 7 are paralytic (one correlated) and appear in Table II of this report with pertinent epidemiologic information.

(This surveillance report was prepared by the Poliomyelitis and Poliolike Diseases Surveillance Unit, Michael J. Regan, M.D., Chief, David G. Miller, M.D., and Mr. Leo Morris, Statistician, with the assistance of Statistics Section, CDC.)

Of the 13 cases reported thus for in 1961, 4 were delayed renorts baving onset in 1960. The remaining 11 cases (10 paralytics)

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Figure I CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1955-1960; APRIL-AUGUST, BY WEEK

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS
AND COMMUNICABLE DISEASE CENTER

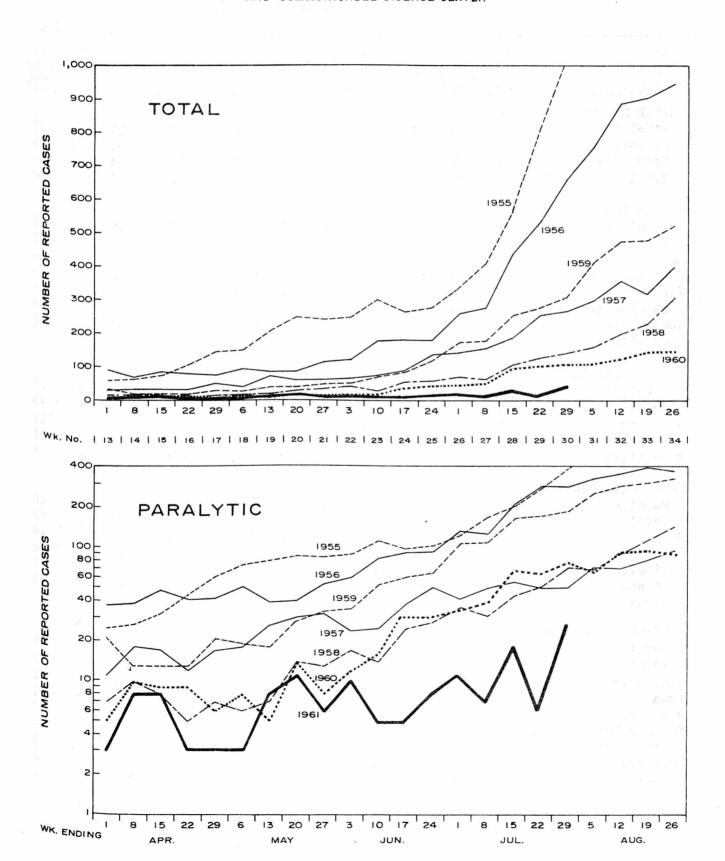


Table I
TREND OF 1961 POLIOMYELITIS INCIDENCE

State	Cumula	<u> </u>			ted to			Six	Compa	rable	Six
and	tive				Ending	and the later late		_\!eek	Weeks	Tota	IS 11
Region	1961	6-24	7-1	7-8	7-15	7-22	7-29	Total	1960	1959	1950
UNITED STATES											
Paralytic	207	8	11	7	18	6	26	76	325	823	288
Nonparalytic	72	8	7	2	7	5	5	34	102	355	196
Unspecified	48	1	4	1	3	-	7	16	23	126	96
Total	327	17	22	10	28	11	38	126	450	1304	580
NEW ENGLAND											
Paralytic	4	-			-	1	_	1	59	16	6
Total	4	-	•••		_	1	-	1	74	25	7
Maine	-		-	-	_	-	-	_	1	-	-
New Hampshire	-	_	-	_	_	_	_	_	_	-	-
Vermont	1	-	-	_		1	-	1	_	-	-
Massachusetts	2	-	-	_	_	_	-	_	4	7	3
Rhode Island	-			-	_	-	-	-	65		1
Connecticut	1	-	-	-	-	-	-	-	4	18	3
MIDDLE ATLANTIC											
Paralytic	20	_	-	-	1	-	-5	6	30	41	28
Total	23	_	1		1	-	5	7	37	60	45
New York	11	_	1	-	1		2	4	20	35	19
New Jersey	5	_	_		-	_	_	-	7	12	21
Pennsylvania	7	-	-	-	-	-	3	3	10	13	5
EAST NORTH CENTRAL											
Paralytic	19	_	2	_	1	_	_	3	32	60	18
Total	32	1	2	-	3	_	2	8	50	126	52
Ohio	13	ī	1	-	1	_	1	4	4	35	14
Indiana	4	-	-	_	1	- .	_	1	12	27	6
Illinois	9	-	-		1	_	1	2	21	20	11
Michigan	3		1	_	-	-	_	1	12	40	15
Wisconsin	3	-	-		-	-	-	-	1	4	6
WEST NORTH CENTRAL											-
Paralytic	9	-	1	1	2	-	-	4	12	174	1
Total	21	1	2	1	5	-	2	11	20	358	19
Minnesota	3	-	-	-	-	-	_	-	5	22	2
Iowa	3	-		-	-	-	1	1	4	131	2
Missouri	8	1	2	1	1	-	-	5	5	111	3
North Dakota	-	-	-	-		-	-		_	-	-
South Dakota	-	-	-	-	-	-	-	_	1	1	3
Nebraska	2	-	-	-	-	_	-	-	2	47	2 7
Kansas	5	-	-	_	4		1	5	3	46	7

Table I (Continued)

And Region SOUTH ATLANTIC Paralytic Total Delaware Maryland D.C. Virginia West Virginia	39 57 2 6	6-24 4 7	For 7-1 4 10	Week 7-8	7-15		7-29	Week Total	-	Total 1959	s in 1953
SOUTH ATLANTIC Paralytic Total Delaware Maryland D.C. Virginia West Vi	39 57 2 6	4 7	4		7-15	7-22	7-29	Total	1960	1959	1953
Paralytic Total Delaware Maryland D.C. Wirginia	57 2 6	7		2							
Paralytic Total Delaware Maryland D.C. Wirginia	57 2 6	7		2							
Total Delaware Maryland D.C. Mirginia Mest View	57 2 6	7		4	6	-	7	23	48	108	63
Maryland C. Virginia	2 6			2	7	1	10	37	78	151	151
dryland .C. irginia	6		_	_	_	_	-	-	-	2	1
irginia		-	_	1	2	_	3	6	_	_	_
irginia	_	_	_	· 🗓	_	_	_	_	13590		4
-01 1/3	1	1	_	_	_	_	_	1	2	35	20
riginia	7		1	1	2			4	9	12	18
		-			_	-	-			35	12
orth Carolina outh Carolina	7	-	-	-		1	2	3	8		
eorgia	4	2	-	-	-	-	-	2	44	16	6
lorida	17	3	5	-	2	-	1	11	2	24	10
orlda	13	1	4	-	1	-	4	10	13	27	80
AST SOUTH CENTRAL	J								13:13		
ralalytic	16	2	-	1	3	-	4	10	22	125	10
	33	2	1	3	3	_	4	13	22	149	41
entinal	18	_	1	_	_	-	2	3	-	2	6
CHIDOC	6	_	_	3		_	1	4	3	47	13
+dD 2-	5	1	_	_	3	_	1	5	7	74	2
ississippi	4	1	· · · -	_	- -		-	1	12	26	20
For Toolbi	4	1		-	-	-	-	1	12	20	20
EST SOUTH CENTRAL											
-419 M-10	31	1	3	1	2	2	3	12	41	199	88
	58	3	3	1	6	5	6	24	76	305	148
tka-	3	1	_	_	_	1	-	2	8	72	4
·V(1) o :	15	2	2	_	2	_	2	8	18	38	16
	2	-	_	_	1 .	_	1	2	4	41	13
exas	38	_	1	1	3	4	3	12	46	154	115
10172	30	_	_	-	5	4	3	12	40	134	113
NIATAU											
Paralytic	16	-	-	1	_	1	2	4	6	23	13
Total	27	-	-	2	-	2	3	7	9	42	38
UD+	2	_	_	1	_	-	_	1	3	2	23
	7	_	_	_	_	1	2	3	_	4	3
YOm:	_	_	_	_	_	_	_	_	1	i	_
olorado	3		_	_		_	_	_	3	5	3
		-	_	_	_	1		2	-	10	6
rizona	3	-	-	-	-		1				
	5	-	-	-	-	-	-	-	-	18	1
levada	7	-	- '	1	-	-	-	1	2	-	2
aua.	-	-	-	-	-	-	-	-	-	2	-
ACIFIC											
Parales	E 2	1	1	1	3	2	5	13	75	77	61
Total	53	1	3	1	3	2	6	18	84	88	79
	72	3			3 1					12	4
regon	13	1	-	-		-	3	5	3		
alic	8	1	2	-	-	-	1	4	3	20	6
laska	49	1	1	1	2	2	2	9	77	50	44
^{aw} aii	-	-	-	-	-	-	_	-	-	6	-
	2	-	-	-	-	-	-	-	1	-	25
ERRITORY											
uerto Rico	5	_	_	_	1	_	-	1	147	_	4

PARALYTIC POLIOMYELITIS OCCURRING WITHIN 30 DAYS OF LAST VACCINE INOCULATION

Table II

(Cases Reported to PSU from January 1, through July 31, 1961)

		0	Ini-		Carr	Date	Men Int No	Onset Inter-	Site	Site First
State		County	tials	Age	Sex	Inoc.	Mfr. Lot No.	val	Inoc.	Para.
Calif.	35 12 15 16 24	Los Angeles	J.L.	2 <u> </u>	M	5-26-61	Pfizer 04384	22 days	upper	facial paresis and limping
Calif.	7.2	San Francis	C.C.	33	М	5-16-61	Wyeth 38204	3 days	left arm	both shoulders
Ga	149 2 47	Fulton	А.В.	.8 mos.	M	6-6-61	Unk. Unk.	19 days	Unk.	Unk JoT
Ga.	74 26	Fulton	D.G.	19 mos.	M	6-24-61	Unk. Unk.	6 days	Unk.	Unk.
Ky . 8.11 →	199 305 72 38	Meade	W.A.	5 &	M (12-13-6	0 P-D or 41993 Wyeth or 1E471	22 days	left buttock	left
La.		Evange- line	R.R.	4 mos.	M	5-15-61	Pfizer Unk. or Lilly	27 days	right hip	right leg & left
£.f.	2.3	1,1						9.4		arm
Texas	42	Milam	S.J.	5	F	6-6-61	Pfizer 0X384	26 days	left arm	both lower extre-
	5									mities